

ABSTRACT OF THE DISCLOSURE

The present system is directed to a computerized system for monitoring and controlling remote devices by transmitting data between the remote systems and a gateway interface via a packet message protocol system. The system comprises one or more remote sensors to be read and possibly one or more actuators to be remotely controlled. The remote sensor(s)/actuator(s) then interface with uniquely identified remote transceivers that transmit and/or receive data. If necessary in individual applications, signal repeaters may relay information between the transceiver(s) and the gateway interface. Communication links between the remote transceivers and the gateway interface are preferably wireless but may also be implemented via a mixture of wireless and wired communication links. To successfully communicate between the transceiver(s) and the gateway interface, the present invention receives a plurality of RF signal transmissions containing a packet protocol via RF signals that includes sender and receiver identifiers, a description of the packet itself, a message number, any commands, the data, and an error detector. In addition, the packet protocol can be easily integrated with alternate data communication protocols for use with systems other than the Internet.